

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
(Rev. 2-32) PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
A-6720

SERIAL NO.
Unknown (CIP Appln. of 08/221,516)

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

APPLICANT
Gregg D. Sucha, et al.

(Use several sheets if necessary)

FILING DATE
February 16, 1996

GROUP
Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JS	3 6 6 9 5 4 1	6/13/72	DUGUAY	356	5	
	4 0 9 7 1 4 8	6/27/78	FRY	356	5	
	4 9 7 3 1 6 0	11/27/90	TAKIGUCHI et al.	356	345	
	4 7 6 7 1 9 7	8/30/88	YEH	350	354	
	5 1 8 9 4 8 9	2/23/93	BRUNFELD	356	358	
	4 7 6 7 2 1 0	8/30/88	KASHYAP	356	345	
	4 7 2 9 6 5 3	3/8/88	KOBAYASHI	356	4.5	
	4 6 0 6 6 3 9	8/19/86	MOTTIER et al.	356	358	
	4 7 0 8 4 8 1	11/24/87	MORI et al.	356	358	
	4 6 1 9 5 2 9	10/28/86	IUCHI et al.	356	358	
	4 9 7 3 1 6 0	11/27/90	TAKIGUCHI et al.	356	345	

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					YES	NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

JS	"IMAGING OBJECTS HIDDEN IN HIGHLY SCATTERING MEDIA USING FEMTOSECOND SECOND-HARMONIC-GENERATION CROSS-CORRELATION TIME GATING", Yoo et al., Optics Letters, July 1, 1991, Vol. 16, No. 13, pp. 1019-1021
	"FEMTOSECOND TRANSILLUMINATION OPTICAL COHERENCE TOMOGRAPHY", Hee et al., Optics Letters, Vol. 18, No. 12, June 15, 1993, pp. 950-952
	"IMAGING WITH SHORT OPTICAL PULSES", Diels et al., Optics and Lasers in Engineering 4, (1983) 145-165
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EXAMINER

JEFFREY ZAHN

DATE CONSIDERED 11/2/2002

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13	4 8 8 6 3 6 3	12/12/89	JUNGQUIST	356	349	
	4 8 3 0 4 8 6	5/16/89	GOODWIN	356	5	
	5 1 7 0 2 1 7	12/8/92	NISHIMOTO et al.	356	359	
	5 1 6 6 7 5 1	11/24/92	MASSIG	356	359	
	5 0 3 7 2 0 6	8/6/91	ETZKORN et al.	356	358	
	4 9 7 8 2 1 9	12/18/90	BESSHO	356	349	
	5 2 9 9 1 7 0	3/29/94	SHIBATA et al.	356	345	
	5 0 5 0 9 8 8	9/24/91	SUGIYAMA et al.	356	121	
	4 3 7 7 0 3 6	3/22/83	DANGSCHAT	33	125	
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	5 1 0 6 1 9 1	4/21/92	OHTSUKA	356	349	

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	"CW AUTOCORRELATION MEASUREMENTS OF PICOSECOND LASER PULSES", Sala et al., IEEE Journal of Quantum Electronics, Vol. QE-16, No. 9, September 1980, pp. 990-996
	"SUBPICOSECOND-TIME-DOMAIN REFLECTOMETRY, Fontaine et al., Optics Letters, Vol. 6, No. 9, September 1981, pp. 405-407
	"400-Hz MECHANICAL SCANNING OPTICAL DELAY LINE", Kwong et al., Optics Letters, Vol. 18, No. 7, April 1, 1993, pp. 558-560
	"IN VIVO RETINAL IMAGING BY OPTICAL COHERENCE TOMOGRAPHY", Swanson et al., Optics Letters, Vol. 18, No. 21, November 1, 1993, pp. 1864-1866

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LENNY ZAHN

DATE CONSIDERED 11/1/2002

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EXAMINER JEFFREY E. LAM

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13	<p>"ULTRAFAST NEAR-FIELD OPTICAL PROBING", Stark et al., Ultrafast Electronics and Optoelectronics, OSA Tech Digest Series, Vol. 13, March 13, 1995, pp. 169-171.</p>
	<p>"PICOSECOND PHOTOCONDUCTIVE SAMPLING WITH NANOSECOND CARRIER LIFETIMES USING AN INTEGRATED INDUCTIVE LOOP", Davidson et al., Ultrafast Electronics and Optoelectronics, OSA Tech Digest Series, Vol. 13, March 13, 1995, pp. 156-161.</p>
	<p>"OPTOELECTRONIC CHARACTERIZATION OF RESONANT TUNNELING DIODES", Nagatsuma et al., Ultrafast Electronics and Optoelectronics, OSA Tech Digest Series, Vol. 13, March 13, 1995, pp. 61-63.</p>
	<p>"ELECTRO-OPTIC TESTING OF ULTRAFAST ELECTRONIC AND OPTOELECTRONIC DEVICES", Nagatsuma, Ultrafast Electronics and Optoelectronics, OSA Tech Digest Series, Vol. 13, March 13, 1995, pp. 46-48.</p>
	<p>"ALL-OPTICAL SIGNAL PROCESSING TECHNOLOGY IN 100 GBIT/S OPTICAL TDM TRANSMISSION", Saruwatari, Ultrafast Electronics and Optoelectronics, OSA Tech Digest Series, Vol. 13, March 13, 1995, pp. 36-38.</p>
	<p>"COHERENT CHARGE OSCILLATIONS IN BULK GaAs", Smirl et al., Ultrafast Electronics and Optoelectronics, OSA Tech Digest Series, Vol. 13, March 13, 1995, pp. 17-19.</p>

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							YES	NO			

13		"TERAHERTZ SPECTROSCOPY OF OPTICALLY THICK MULTILAYERED SEMICONDUCTOR STRUCTURES", Ralph et al., J. Opt. Soc. Am. B/Vol. 11, No. 12, December 1994, pp. 2528-2532.
13		"DESIGN OF MULTIMIRROR STRUCTURES FOR HIGH-FREQUENCY BURSTS AND CODES OF ULTRASHORT PULSES", Narayan et al., IEEE Journal of Quantum Electronics, Vol. 30, No. 7, July 1994, pp. 1671-1680.
13		"ALL-FIBER FEMTOSECOND PULSE AMPLIFICATION CIRCUIT USING CHIRPED BRAGG GRATINGS", Galvanauskas, Appl. Phys. Lett. 66 (9), 27 February 1995, pp. 1053-1055.

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11/1/2002

EXAMINER JOSEPH L. KATZ

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h		"ENVIRONMENTALLY STABLE KERR-TYPE MODE-LOCKED ERBIUM FIBER LASER PRODUCING 360-FS PULSES", Fermann, January 1, 1994, Vol. 19, No. 1, Optics Letters, pp. 43-45.	
h		"FEMTOSECOND OPTICAL RANGING IN BIOLOGICAL SYSTEMS", Fujimoto et al., Optics Letters, Vol. 11, No. 3, March 1986, pp. 150-152.	
EXAMINER	Leirney ZAHN	DATE CONSIDERED	11/1/2002

EXAMINER 1-10-2019 244N

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13		"IMAGING WITH TERAHERTZ WAVES", Hu et al., Optics Letters, Vol. 20, No. 16, August 15, 1995, pp. 1716-1719.
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13		"400-Hz MECHANICAL SCANNING OPTICAL DELAY LINE", Kwong et al., Optics Letters, Vol. 18, No. 7, April 1, 1993, pp. 558-560.
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JEFFREY ZAHN

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EXAMINER JEFFREY EATON

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J3		"TIMING SYNCHRONIZATION OF A PASSIVELY MODE-LOCKED DYE LASER USING A PULSED OPTICAL PHASE LOCK LOOP", Dijaili et al., Applied Physics Letter, Vol. 55, No. 5, 31 July 1989, pp. 418-420.
J3		"PROGRAMMABLE ULTRASHORT OPTICAL PULSE DELAY USING AN ACOUSTO-OPTIC DEFLECTOR", Piyaket et al., Applied Optics, Vol. 34, No. 8, 10 March 1995, pp. 1445-1453.
J3		"CONTROLLABLE DUAL-WAVELENGTH OPERATION OF A FEMTOSECOND NEODYMIUM FIBER LASER", Ober et al., Optics Letters, Vol. 20, No. 2, January 15, 1995, pp. 195-197.
EXAMINER	SUPERVISOR ZAHN	
	DATE CONSIDERED	11/1/2002

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EXAMINER J. A. Smith

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13		"ULTRA-HIGH-SPEED PLL-TYPE CLOCK RECOVERY CIRCUIT BASED ON ALL-OPTICAL GAIN MODULATION IN TRAVELING-WAVE LASER DIODE AMPLIFIER", Kawanishi et al., Journal of Lightwave Technology, Vol. 11, No. 12, December 1993, pp. 2123-2129.
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13		"DUAL-WAVELENGTH SELF-MODE-LOCKED Ti:SAPPHIRE LASER", Evans et al., Optics Letters, Vol. 18, No. 13, July 1, 1993, pp. 1074-1076.

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EXAMINER JAMES DAVIS

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		"DUAL-WAVELENGTH SYNCHRONOUS OPERATION OF A MODE-LOCKED Ti:SAPPHIRE LASER BASED ON SELF-SPECTRUM SPLITTING", Zhang et al., Optics Letters, Vol. 18, No. 24, December 15, 1993, pp. 2126-2128.
		"ULTRAHIGH-SPEED PHASELOCKED-LOOP-TYPE CLOCK RECOVERY CIRCUIT USING A TRAVELING-WAVE LASER DIODE AMPLIFIER AS A 50 GHz PHASE DETECTOR", Kawanishi et al., pp. 1-3.
EXAMINER	LARRY EARN	DATE CONSIDERED 11/1/02

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11/1/02

EXAMINER JOE K. [Signature]

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